

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number  
**WO 2005/095658 A1**

(51) International Patent Classification<sup>7</sup>: **C22B 21/06**, 9/02

(21) International Application Number:

PCT/EP2005/001772

(22) International Filing Date: 17 February 2005 (17.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

04075871.6 19 March 2004 (19.03.2004) EP

(71) Applicant (for all designated States except US): **CORUS TECHNOLOGY BV** [NL/NL]; P.O. Box 10000, NL-1970 CA IJmuiden (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **DE VRIES, Paul, Alexander** [NL/NL]; Franz Lehárlaan 133, NL-2102 GM Heemstede (NL).

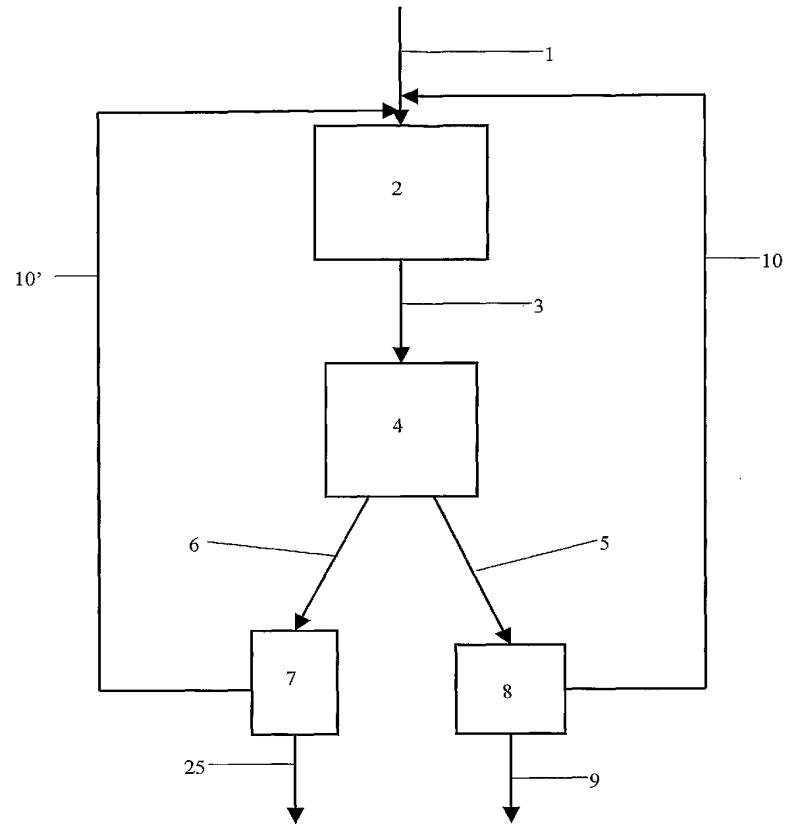
(74) Agent: **KRUIT, Jan**; Corus Technology BV, P.O. Box 10000, NL-1970 CA IJmuiden (NL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

[Continued on next page]

(54) Title: METHOD FOR THE PURIFICATION OF A MOLTEN METAL



(57) Abstract: The invention relates to a method for the purification of a molten metal containing one or more foreign elements. The invention is characterised in that the molten metal is cooled to a eutectic temperature to simultaneously form purified metal crystals and crystals containing at least one foreign element, and in that at least some of the crystals containing at least one foreign element are separated from the purified metal crystals by using a solid-solid separation technique.

WO 2005/095658 A1



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*